

Refine Search

Search Results -

Terms	Documents
L8 and (304Ser)	0

Database:

US Pre-Grant Publication Full-Text Database

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Derwent World Patents Index

IBM Technical Disclosure Bulletins

Search:

L8 and (Serine at position 304))

Refine Search

Recall Text

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Interrupt

Search History

DATE: Wednesday, August 16, 2006 [Printable Copy](#) [Create Case](#)

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
side by side			result set

DB=PGPB; PLUR=YES; OP=OR

<u>L9</u>	L8 and (304Ser)	0	<u>L9</u>
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<u>L8</u>	L7 and mutation	75	<u>L8</u>
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<u>L7</u>	15 and L6	554	<u>L7</u>
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<u>L6</u>	alkaline protease	105055	<u>L6</u>
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<u>L5</u>	sato.in.	6884	<u>L5</u>
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<u>L4</u>	20040072321	1	<u>L4</u>
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DB=USPT; PLUR=YES; OP=OR

<u>L3</u>	7101698.pn.	0	<u>L3</u>
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<u>L2</u>	6803222.pn.	1	<u>L2</u>
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<u>L1</u>	7101698.pn.	0	<u>L1</u>
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END OF SEARCH HISTORY

Refine Search

Search Results -

Terms	Documents
L15 and (position 296 valine)	20102

Database:

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:

L16

Refine Search

Recall Text

Clear

Interrupt

Search History

DATE: Wednesday, August 16, 2006 [Printable Copy](#) [Create Case](#)

Set Name Query

side by side

Hit Count Set Name

result set

DB=USPT; PLUR=YES; OP=OR

<u>L16</u>	L15 and (position 296 valine)	20102	<u>L16</u>
<u>L15</u>	L14 and (alkaline protease activity)	20421	<u>L15</u>
<u>L14</u>	L13 and (position 187 and serine)	20524	<u>L14</u>
<u>L13</u>	L12 and (serine)	22418	<u>L13</u>
<u>L12</u>	L11 and (position 63)	137544	<u>L12</u>
<u>L11</u>	alkaline protease mutant	257927	<u>L11</u>
<u>L10</u>	16 and mutation	0	<u>L10</u>

DB=PGPB; PLUR=YES; OP=OR

<u>L9</u>	L8 and (304Ser)	0	<u>L9</u>
<u>L8</u>	L7 and mutation	75	<u>L8</u>
<u>L7</u>	15 and L6	554	<u>L7</u>
<u>L6</u>	alkaline protease	105055	<u>L6</u>
<u>L5</u>	sato.in.	6884	<u>L5</u>
<u>L4</u>	20040072321	1	<u>L4</u>

DB=USPT; PLUR=YES; OP=OR

<u>L3</u>	7101698.pn.	0	<u>L3</u>
<u>L2</u>	6803222.pn.	1	<u>L2</u>
<u>L1</u>	7101698.pn.	0	<u>L1</u>

END OF SEARCH HISTORY

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Refine Search

Search Results -

Terms	Documents
L16 and L5	0

Database:

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:

L17

Refine Search

Recall Text

Clear

Interrupt

Search History

DATE: Wednesday, August 16, 2006 [Printable Copy](#) [Create Case](#)

Set Name Query

side by side

Hit Count Set Name

result set

DB=USPT; PLUR=YES; OP=OR

<u>L17</u>	L16 and l5	0	<u>L17</u>
<u>L16</u>	L15 and (position 296 valine)	20102	<u>L16</u>
<u>L15</u>	L14 and (alkaline protease activity)	20421	<u>L15</u>
<u>L14</u>	L13 and (position 187 and serine)	20524	<u>L14</u>
<u>L13</u>	L12 and (serine)	22418	<u>L13</u>
<u>L12</u>	L11 and (position 63)	137544	<u>L12</u>
<u>L11</u>	alkaline protease mutant	257927	<u>L11</u>
<u>L10</u>	l6 and mutation	0	<u>L10</u>

DB=PGPB; PLUR=YES; OP=OR

<u>L9</u>	L8 and (304Ser)	0	<u>L9</u>
<u>L8</u>	L7 and mutation	75	<u>L8</u>
<u>L7</u>	l5 and L6	554	<u>L7</u>
<u>L6</u>	alkaline protease	105055	<u>L6</u>
<u>L5</u>	sato.in.	6884	<u>L5</u>
<u>L4</u>	20040072321	1	<u>L4</u>

DB=USPT; PLUR=YES; OP=OR

<u>L3</u>	7101698.pn.	0	<u>L3</u>
<u>L2</u>	6803222.pn.	1	<u>L2</u>
<u>L1</u>	7101698.pn.	0	<u>L1</u>

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FILE 'HOME' ENTERED AT 17:36:09 ON 16 AUG 2006

=> file medline, uspatful, dgene, embase, biosis

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'MEDLINE' ENTERED AT 17:36:52 ON 16 AUG 2006

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FILE 'BIOSIS' ENTERED AT 17:36:52 ON 16 AUG 2006
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=> s alkaline protease
L1 5253 ALKALINE PROTEASE

=> s l1 and mutation
L2 1073 L1 AND MUTATION

=> e sato,t/au
E1 1 SATO ZENSIRO/AU
E2 1 SATO ZENSUKE/AU
E3 0 --> SATO,T/AU
E4 1 SATOA M/AU
E5 1 SATOA R N/AU
E6 1 SATOA YUKO T/AU
E7 1 SATOB S/AU
E8 1 SATOC DEAN T/AU
E9 1 SATOCHI T/AU
E10 1 SATODA H/AU
E11 3 SATODA HAJIME/AU
E12 7 SATODA I/AU

=> d his

(FILE 'HOME' ENTERED AT 17:36:09 ON 16 AUG 2006)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, BIOSIS' ENTERED AT 17:36:52 ON
16 AUG 2006

L1 5253 S ALKALINE PROTEASE
L2 1073 S L1 AND MUTATION
E SATO,T/AU

=> s l2 and (position 63 serine0
UNMATCHED LEFT PARENTHESIS 'AND (POSITION'
The number of right parentheses in a query must be equal to the
number of left parentheses.

=> s l2 and (position 63 serine)
L3 0 L2 AND (POSITION 63 SERINE)

=> s l2 and (position 187 serine)
L4 8 L2 AND (POSITION 187 SERINE)

=> d l4 ti abs ibib tot

L4 ANSWER 1 OF 8 DGENE COPYRIGHT 2006 The Thomson Corp on STN
TI New engineered alkaline protease, useful particularly
in laundry detergents, comprising specified amino acids at particular
positions.
AN ADS14433 DNA DGENE
AB The invention relates to a novel alkaline protease.

The new alkaline protease comprises an amino acid sequence in which one or more amino acid residues selected from those located at 7 specific positions within ADS14427, or at positions corresponding to these positions are: position 15 (histidine), position 16 (threonine or glutamine), position 166 (glycine), position 167 (valine), position 187 (serine), position 346 (arginine), and position 405 (aspartic acid). The alkaline protease is useful in industry particularly in laundry detergents, but also e.g. in fibre modifying agents, leather processing agents, cosmetic compositions, bath additives, food-modifying agents, and pharmaceuticals. The present sequence represents a PCR primer used in the invention to introduce mutation into the alkaline protease gene of the invention.

ACCESSION NUMBER: ADS14433 DNA DGENE
TITLE: New engineered alkaline protease, useful particularly in laundry detergents, comprising specified amino acids at particular positions.
INVENTOR: Okuda M; Sato T; Takimura Y; Sumitomo N; Kobayashi T
PATENT ASSIGNEE: (KAOS) KAO CORP.
PATENT INFO: EP 1466962 A1 20041013 31
APPLICATION INFO: EP 2004-8604 20040408
PRIORITY INFO: JP 2003-106709 20030410
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2004-711313 [70]
DESCRIPTION: Bacillus alkaline protease KP43
mutation PCR primer 5 SEQ ID NO:7.

Applicant

L4 ANSWER 2 OF 8 DGENE COPYRIGHT 2006 The Thomson Corp on STN
TI New engineered alkaline protease, useful particularly in laundry detergents, comprising specified amino acids at particular positions.

AN ADS14435 DNA DGENE
AB The invention relates to a novel alkaline protease. The new alkaline protease comprises an amino acid sequence in which one or more amino acid residues selected from those located at 7 specific positions within ADS14427, or at positions corresponding to these positions are: position 15 (histidine), position 16 (threonine or glutamine), position 166 (glycine), position 167 (valine), position 187 (serine), position 346 (arginine), and position 405 (aspartic acid). The alkaline protease is useful in industry particularly in laundry detergents, but also e.g. in fibre modifying agents, leather processing agents, cosmetic compositions, bath additives, food-modifying agents, and pharmaceuticals. The present sequence represents a PCR primer used in the invention to introduce mutation into the alkaline protease gene of the invention.

ACCESSION NUMBER: ADS14435 DNA DGENE
TITLE: New engineered alkaline protease, useful particularly in laundry detergents, comprising specified amino acids at particular positions.
INVENTOR: Okuda M; Sato T; Takimura Y; Sumitomo N; Kobayashi T
PATENT ASSIGNEE: (KAOS) KAO CORP.
PATENT INFO: EP 1466962 A1 20041013 31
APPLICATION INFO: EP 2004-8604 20040408
PRIORITY INFO: JP 2003-106709 20030410
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2004-711313 [70]
DESCRIPTION: Bacillus alkaline protease KP43
mutation PCR primer 7 SEQ ID NO:9.

L4 ANSWER 3 OF 8 DGENE COPYRIGHT 2006 The Thomson Corp on STN

TI New engineered alkaline protease, useful particularly
in laundry detergents, comprising specified amino acids at particular
positions.
AN ADS14429 DNA DGENE
AB The invention relates to a novel alkaline protease.
The new alkaline protease comprises an amino acid
sequence in which one or more amino acid residues selected from those
located at 7 specific positions within ADS14427, or at positions
corresponding to these positions are: position 15 (histidine), position
16 (threonine or glutamine), position 166 (glycine), position 167
(valine), position 187 (serine), position
346 (arginine), and position 405 (aspartic acid). The alkaline
protease is useful in industry particularly in laundry
detergents, but also e.g. in fibre modifying agents, leather processing
agents, cosmetic compositions, bath additives, food-modifying agents, and
pharmaceuticals. The present sequence represents a PCR primer used in
the invention to introduce mutation into the alkaline
protease gene of the invention.

ACCESSION NUMBER: ADS14429 DNA DGENE

TITLE: New engineered alkaline protease, useful
particularly in laundry detergents, comprising specified
amino acids at particular positions.

INVENTOR: Okuda M; Sato T; Takimura Y; Sumitomo N; Kobayashi T

PATENT ASSIGNEE: (KAOS) KAO CORP.

PATENT INFO: EP 1466962 A1 20041013 31

APPLICATION INFO: EP 2004-8604 20040408

PRIORITY INFO: JP 2003-106709 20030410

DOCUMENT TYPE: Patent

LANGUAGE: English

OTHER SOURCE: 2004-711313 [70]

DESCRIPTION: Bacillus alkaline protease KP43
mutation PCR primer 1 SEQ ID NO:3.

L4 ANSWER 4 OF 8 DGENE COPYRIGHT 2006 The Thomson Corp on STN

TI New engineered alkaline protease, useful particularly
in laundry detergents, comprising specified amino acids at particular
positions.

AN ADS14430 DNA DGENE

AB The invention relates to a novel alkaline protease.
The new alkaline protease comprises an amino acid
sequence in which one or more amino acid residues selected from those
located at 7 specific positions within ADS14427, or at positions
corresponding to these positions are: position 15 (histidine), position
16 (threonine or glutamine), position 166 (glycine), position 167
(valine), position 187 (serine), position
346 (arginine), and position 405 (aspartic acid). The alkaline
protease is useful in industry particularly in laundry
detergents, but also e.g. in fibre modifying agents, leather processing
agents, cosmetic compositions, bath additives, food-modifying agents, and
pharmaceuticals. The present sequence represents a PCR primer used in
the invention to introduce mutation into the alkaline
protease gene of the invention.

ACCESSION NUMBER: ADS14430 DNA DGENE

TITLE: New engineered alkaline protease, useful
particularly in laundry detergents, comprising specified
amino acids at particular positions.

INVENTOR: Okuda M; Sato T; Takimura Y; Sumitomo N; Kobayashi T

PATENT ASSIGNEE: (KAOS) KAO CORP.

PATENT INFO: EP 1466962 A1 20041013 31

APPLICATION INFO: EP 2004-8604 20040408

PRIORITY INFO: JP 2003-106709 20030410

DOCUMENT TYPE: Patent

LANGUAGE: English

OTHER SOURCE: 2004-711313 [70]
DESCRIPTION: Bacillus alkaline protease KP43
mutation PCR primer 2 SEQ ID NO:4.

L4 ANSWER 5 OF 8 DGENE COPYRIGHT 2006 The Thomson Corp on STN
TI New engineered alkaline protease, useful particularly
in laundry detergents, comprising specified amino acids at particular
positions.

AN ADS14432 DNA DGENE

AB The invention relates to a novel alkaline protease.
The new alkaline protease comprises an amino acid
sequence in which one or more amino acid residues selected from those
located at 7 specific positions within ADS14427, or at positions
corresponding to these positions are: position 15 (histidine), position
16 (threonine or glutamine), position 166 (glycine), position 167
(valine), position 187 (serine), position
346 (arginine), and position 405 (aspartic acid). The alkaline
protease is useful in industry particularly in laundry
detergents, but also e.g. in fibre modifying agents, leather processing
agents, cosmetic compositions, bath additives, food-modifying agents, and
pharmaceuticals. The present sequence represents a PCR primer used in
the invention to introduce mutation into the alkaline
protease gene of the invention.

ACCESSION NUMBER: ADS14432 DNA DGENE

TITLE: New engineered alkaline protease, useful
particularly in laundry detergents, comprising specified
amino acids at particular positions.

INVENTOR: Okuda M; Sato T; Takimura Y; Sumitomo N; Kobayashi T

PATENT ASSIGNEE: (KAOS) KAO CORP.

PATENT INFO: EP 1466962 A1 20041013 31

APPLICATION INFO: EP 2004-8604 20040408

PRIORITY INFO: JP 2003-106709 20030410

DOCUMENT TYPE: Patent

LANGUAGE: English

OTHER SOURCE: 2004-711313 [70]

DESCRIPTION: Bacillus alkaline protease KP43
mutation PCR primer 4 SEQ ID NO:6.

L4 ANSWER 6 OF 8 DGENE COPYRIGHT 2006 The Thomson Corp on STN
TI New engineered alkaline protease, useful particularly
in laundry detergents, comprising specified amino acids at particular
positions.

AN ADS14434 DNA DGENE

AB The invention relates to a novel alkaline protease.
The new alkaline protease comprises an amino acid
sequence in which one or more amino acid residues selected from those
located at 7 specific positions within ADS14427, or at positions
corresponding to these positions are: position 15 (histidine), position
16 (threonine or glutamine), position 166 (glycine), position 167
(valine), position 187 (serine), position
346 (arginine), and position 405 (aspartic acid). The alkaline
protease is useful in industry particularly in laundry
detergents, but also e.g. in fibre modifying agents, leather processing
agents, cosmetic compositions, bath additives, food-modifying agents, and
pharmaceuticals. The present sequence represents a PCR primer used in
the invention to introduce mutation into the alkaline
protease gene of the invention.

ACCESSION NUMBER: ADS14434 DNA DGENE

TITLE: New engineered alkaline protease, useful
particularly in laundry detergents, comprising specified
amino acids at particular positions.

INVENTOR: Okuda M; Sato T; Takimura Y; Sumitomo N; Kobayashi T

PATENT ASSIGNEE: (KAOS) KAO CORP.

PATENT INFO: EP 1466962 A1 20041013 31
APPLICATION INFO: EP 2004-8604 20040408
PRIORITY INFO: JP 2003-106709 20030410
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2004-711313 [70]
DESCRIPTION: Bacillus alkaline protease KP43
mutation PCR primer 6 SEQ ID NO:8.

L4 ANSWER 7 OF 8 DGENE COPYRIGHT 2006 The Thomson Corp on STN
TI New engineered alkaline protease, useful particularly
in laundry detergents, comprising specified amino acids at particular
positions.
AN ADS14431 DNA DGENE
AB The invention relates to a novel alkaline protease.
The new alkaline protease comprises an amino acid
sequence in which one or more amino acid residues selected from those
located at 7 specific positions within ADS14427, or at positions
corresponding to these positions are: position 15 (histidine), position
16 (threonine or glutamine), position 166 (glycine), position 167
(valine), position 187 (serine), position
346 (arginine), and position 405 (aspartic acid). The alkaline
protease is useful in industry particularly in laundry
detergents, but also e.g. in fibre modifying agents, leather processing
agents, cosmetic compositions, bath additives, food-modifying agents, and
pharmaceuticals. The present sequence represents a PCR primer used in
the invention to introduce mutation into the alkaline
protease gene of the invention.

ACCESSION NUMBER: ADS14431 DNA DGENE
TITLE: New engineered alkaline protease, useful
particularly in laundry detergents, comprising specified
amino acids at particular positions.
INVENTOR: Okuda M; Sato T; Takimura Y; Sumitomo N; Kobayashi T
PATENT ASSIGNEE: (KAOS)KAO CORP.
PATENT INFO: EP 1466962 A1 20041013 31
APPLICATION INFO: EP 2004-8604 20040408
PRIORITY INFO: JP 2003-106709 20030410
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2004-711313 [70]
DESCRIPTION: Bacillus alkaline protease KP43
mutation PCR primer 3 SEQ ID NO:5.

L4 ANSWER 8 OF 8 DGENE COPYRIGHT 2006 The Thomson Corp on STN
TI New engineered alkaline protease, useful particularly
in laundry detergents, comprising specified amino acids at particular
positions.
AN ADS14436 DNA DGENE
AB The invention relates to a novel alkaline protease.
The new alkaline protease comprises an amino acid
sequence in which one or more amino acid residues selected from those
located at 7 specific positions within ADS14427, or at positions
corresponding to these positions are: position 15 (histidine), position
16 (threonine or glutamine), position 166 (glycine), position 167
(valine), position 187 (serine), position
346 (arginine), and position 405 (aspartic acid). The alkaline
protease is useful in industry particularly in laundry
detergents, but also e.g. in fibre modifying agents, leather processing
agents, cosmetic compositions, bath additives, food-modifying agents, and
pharmaceuticals. The present sequence represents a PCR primer used in
the invention to introduce mutation into the alkaline
protease gene of the invention.

ACCESSION NUMBER: ADS14436 DNA DGENE

TITLE: New engineered alkaline protease, useful
 particularly in laundry detergents, comprising specified
 amino acids at particular positions.
 INVENTOR: Okuda M; Sato T; Takimura Y; Sumitomo N; Kobayashi T
 PATENT ASSIGNEE: (KAOS) KAO CORP.
 PATENT INFO: EP 1466962 A1 20041013 31
 APPLICATION INFO: EP 2004-8604 20040408
 PRIORITY INFO: JP 2003-106709 20030410
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 OTHER SOURCE: 2004-711313 [70]
 DESCRIPTION: Bacillus alkaline protease KP43
 mutation PCR primer 8 SEQ ID NO:10.

=> d his

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FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, BIOSIS' ENTERED AT 17:36:52 ON
16 AUG 2006

L1 5253 S ALKALINE PROTEASE
 L2 1073 S L1 AND MUTATION
 E SATO,T/AU
 L3 0 S L2 AND (POSITION 63 SERINE)
 L4 8 S L2 AND (POSITION 187 SERINE)

=> s l2 and (position 226 tyrosine)

L5 0 L2 AND (POSITION 226 TYROSINE)

=> s l2 and (position 304 serine)

L6 0 L2 AND (POSITION 304 SERINE)

=> s l2 and (position 296 valine)

L7 0 L2 AND (POSITION 296 VALINE)

=> s l2 and (position 89 histidine)

L8 0 L2 AND (POSITION 89 HISTIDINE)

=> s l2 and (position 120 arginine)

L9 0 L2 AND (POSITION 120 ARGININE)

=> d his

(FILE 'HOME' ENTERED AT 17:36:09 ON 16 AUG 2006)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, BIOSIS' ENTERED AT 17:36:52 ON
16 AUG 2006

L1 5253 S ALKALINE PROTEASE
 L2 1073 S L1 AND MUTATION
 E SATO,T/AU
 L3 0 S L2 AND (POSITION 63 SERINE)
 L4 8 S L2 AND (POSITION 187 SERINE)
 L5 0 S L2 AND (POSITION 226 TYROSINE)
 L6 0 S L2 AND (POSITION 304 SERINE)
 L7 0 S L2 AND (POSITION 296 VALINE)
 L8 0 S L2 AND (POSITION 89 HISTIDINE)
 L9 0 S L2 AND (POSITION 120 ARGININE)